

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: "michael (w.m.) babineau" <babineau@bnr.ca>
Subject: [4937] 30M Explorer Low Audio Mod
Message-ID: <"675 Mon Oct 30 11:14:29 1995"@bnr.ca>

Hi :

A number of people have mentioned that the audio gain on the 30M Explorer seems too low. I discussed this a while back with Chuck via email and with Dick from OHR when placing my 40M Explorer II order by phone.

What Dick suggested was to change the value of R8 (560ohms) to approximately 2.2K. This is the feedback resistor on U2 (the 5534). I managed to find time on the weekend to do this and the results look pretty good.

This seems to up the noise floor a little but really doesn't seem to really adversely impact the S/N. I do notice more hiss with the audio gain cranked up but I'm getting more signal as well. The gain is such that I doubt one would ever want to crank the audio gain past 12 o'clock, which leads me to believe that possibly a smaller value than 2.2k might be an even better choice. I did a fair bit of listening after making the mod and I found that it's still possible to pull in the weak ones. It no longer sounds like I have earmuffs on under my headphones ;-)

The logistics of this mod are fairly simple. R8 is located near the left side of the board, just to the right of U2. It is possible to replace this resistor without too much trouble if you have nimble fingers. I simply removed the screws holding the board and unsoldered the large red wire which attaches to C66 the tuning capacitor. I was then able to angle the board up far enough, to replace the resistor, without unsoldering anything else.

I'm curious, if anyone else make this mod and can compare the results with the "feel" of 40M Explorer.

Michael
VE3WMB

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [4942] Antenna Measurement
Message-ID: <199510301729.RAA28986@chuck.dallas.sgi.com>

Gang,

I have seen the posts on the small lamp in the antenna line

to measure or give a relative indication of RF power output.

I will do some experimentation in about two weeks and let you know what I find out, but here are my first thoughts.

1. The added significant resistance into the antenna line will lower the Q of the antenna.
2. The added R will lower the radiation resistance of the antenna.
3. The light that you see coming from the small lamp is converted energy from the frequency that you are transmitting on into the visible spectrum. Thus you are killing your QRP signal by a significant amount. This lamp in the line works fine if you are QRO and don't care about what could be almost a watt of power.

Tell you what you do. Take another similar lamp and with a variable DC power supply and figure out what power input into the lamp gives you the same brightness you see when you have your rig and antenna tuned to maximum brightness. I'll bet it isn't a relatively trivial amount.

Energy is conserved. This one of the great principles of science, the "conservation of energy principle".

Also the Heisenberg Uncertainty Principle, when applied with some degree of freedom here, says that if we measure something we effect what we are measuring. An example, ever listen to the VFO frequency in a receiver, then place a frequency counter to a test point and hear the frequency shift. We changed, maybe even very slightly, the LC values and thus the resulting frequency. The addition of the lamp into the antenna changes the antenna characteristics. Build a field strength meter and test this out but get the FS outta the near field of the antenna. Get someone across town to experiment with you. It's worth an article in a newsletter somewhere, I am sure. Heck, write to K. Sterba, at Worldradio. :-) :-) ;-)

All of the above may be why you are having trouble making contacts with QRP levels. Let us know. Inquiring minds have just gotta find out.

I think that I can come up with a small circuit board, about one inch square or 2.5cm by 5.0cm that will do a better job and without a meter requirement. Everyone on this list should be able to guess how to do this. I want to check on accuracy of the technique versus SWR bridge and other techniques. Watch for something for NorTex if I can sell the guys on the

project. We got another one in the works right now.

Historical information. I have seen a ham take a florescent lamp about three feet long and go along an 80M antenna looking at nulls and peaks while a QRO linear was key down to measure SWR. This was in the mid '50s. Those were the days gang. :-)

dit dit

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [4957] Antenna Tuning Continued
Message-ID: <199510310355.DAA00373@chuck.dallas.sgi.com>

Gang,

Got home 15 minutes earlier from work than usual despite the rainy weather. Anyway, I ran to the shack and tried the experiment. I was right. I took the MFJ-941C tuner and set it off to a random setting. Then took the MFJ-249 SWR Analyzer and used it to get the lowest SWR reading that I could on it's meter for 7.040MHz.

Then fired up the OHR Explorer into the antenna and measured 0.90W forward and 0.01W reflected.

Now pick another random setting of tuner and add a small prototype of circuit that should be used instead of lamp in series with antenna line. Again tune tuner for what should be minimum SWR and the settings wind up at same point.

Just to make sure that I didn't add bias to the test, since I already knew where the minimum was I asked Phyllis to do the same thing by my setting tuner to random settings of all three controls and asking her to tune MFJ tuner for minimum SWR. She did this and got the exact same result.

So far so good. Now going to do something with lamp in line, but that requires another prototype board. Stay tuned. Results of part two later

this week. Will try this on 30M and 20M and power levels up to 3W or so.

BTW heard a RI station just below 7.040MHz during the foxhunt. Didn't try for him as I was listening for the masses and doing experiment. Also heard some serious DX, so band in good shape, maybe too good and real long skip in place for fox hunting.

dit dit

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Scott Cranston <cranston@zk3.dec.com>
Subject: [4932] Bilateral Transverter
Message-ID: <9510301502.AA09101@alpha.zk3.dec.com>

As a follow up to the QRP VHF/UHF discussions... for an interesting, simple low cost approach see "An Introduction to the Bilateral Transverter", by Fred Brown, W6HPH; QST, December 1981; Page 34.

Two bilateral transverters are described... 6 meters and 220 MHz. The IF is 20 meters, they produce about 100mw output with a noise figure about 8db worse than the IF receiver... drive power required is well under 1w. They are fairly simple, the 6m flavor uses 6 2N2222A's, 7 coils, 7 fixed caps, 6 trimmer caps, 13 resistors, 4 diodes, 2 RFC's and one transformer.

It is built on a 5x6.5 inch copper-clad board... using terminal-strip construction (no etch layout given in article, but parts placement is shown). The 220 MHz flavor is very nearly the same. The unit must be built in a well shielded enclosure. I would suggest that making the circuit board and enclosure is not a project to be undertaken by the mechanically-challenged :^)

Scott,
KB1NW

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Anibal Aguirre <aaguirr@aleph.fi.uba.ar>

Subject: [4931] buy 80m kit
Message-ID: <9510301146.AA06782@aleph.fi.uba.ar>

hi: I buy 80m (qrp) kit with the following characteristics.
power: 5w (aprox)
mode: lsb
osc:xtal or synth.
please replay me by e-mail to aaguirr@aleph.fi.uba.ar
ANIBAL AGUIRRE

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: bobh@hp-pcd.cv.hp.com (Bob Headrick)
Subject: [4936] Cascade vs CQWW Contest
Message-ID: <199510301659.AA282792344@hpcvsgen.cv.hp.com>

Well, I fired up the Cascade and went after the CQWW contest this weekend.

I had about 60 QSO's, 11 zones and 7 countries on 20M and 80M. Sometime during the contest I realized that my ground mounted AP-8 vertical wasn't cutting it, so I put up a dipole that seemed to work better on 80M.

I managed to work a handful of JA's. I heard a lot of Europe but couldn't get through the QRM and make any QSO's there. My most frustrating almost-QSO was PJ9B - after several tries he had all but the last letter of my call, and was never able to pull it out. That KT34XA sitting in my garage really needs to get in the air - even on sawhorses mounted in the driveway I may have been able to get through to more countries.

Before the sweepstakes in November I need to get the KT34A at least sitting on the roof. Also some work is needed on the recovery time for the Cascade. It takes ~ 1 second (maybe 750mS?) to recover after the PTT is released. In a contest environment this is too long. I suspect the AGC, and will be looking into that.

All in all the Cascade worked well. The RX was excellent, with good rejection of QRM (well, as well as can be expected in a DX melee!).

The best signal report was from a W6 that said I was 10 over 9 (he was 40 over, I didn't ask how much power he was running). The worst was from a KH6 that said he must be picking my call out with ESP, as he really couldn't hear me (but he did get it after 3 tries...).

All in all a lot of fun, but would have been more fun with a real antenna. Next time...

- 73 Bob WA7OVU

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: pcalcand@sescva.esc.edu (PETER CALCANDY)
Subject: [4949] CW SWEEPSTAKES
Message-ID: <95103020054936@sescva.esc.edu>

Anyone planning on working the sweeps? I know I will be on probable
probably late sat nite running qrp. Pls let me know and I will keep
my special ear out for you.

Good Luck
Peter N2KPY

PS

This is to announce that my official period of mourning has ended.
Although the CLEVELAND INDIANS didn't win the world series (with their
QRP bats), they did a hellofa job just the same. In fact, it was a
hellova series.

Tomorrow is Halloween and I am going to go trick or treating as a
TenTec Scout!

regards
pc

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Ed DeBuvitz <edeb@edeb>
Subject: [4953] Fox
Message-ID: <Pine.BSD/.3.91.951030202514.1974A-1000000@bud.indirect.com>

As a new list member I'm not familiar with the fox operations.
Can someone leave a msg and tell me what I should do if and when I connect?
Is there a prize...like maybe a certificate?
Tnx....Ed W5TTE Albuquerque, NM

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: "Stan Goldstein, N6ULU" <stan@cruzio.com>
Subject: [4960] fox hunt info for new guys
Message-ID: <9510302252.aa05721@inside.cruzio.com>

ED , couldn't send this directly to you. your e-mail address is what ?

edeb@edeb doesn't work.

```
> <edeb@edeb> (unrecoverable error)
> Ed DeBuvitz writes:
> >
> > As a new list member I'm not familiar with the fox operations.
> > Can someone leave a msg and tell me what I should do if and when I connect?
> > Is there a prize...like maybe a certificate?
> > Tnx....Ed W5TTE Albuquerque, NM
> >
> Hi Ed, just give ur call give and get an rdt and perhaps exchange names.
> Fox who works most guys wins a small qrp rig.
> Guy who works most foxii wins another qrp rig.
> Prizes courtesy of k5fo , Chuck who started this list and the fox hunt.
> 73 & see u in the hunt.
> ( the foxes are all assigned for the year, but next year a whole new pack ).
> Stan, n6ulu
>
--
Stan Goldstein
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From qrp-l@lehigh.edu Tue Oct 31 14:36:00 1995
From: km@PACT.ORG.PE (Kris Merschrod)
Subject: [4962] FOX HUNT or SNIPE HUNT
Message-ID: <m0tADs4-000Ar6C@rcp.net.pe>

Still could be my imagination - nothing heard so far. WB3GCK (Craig)
nor the swarm of QRP signals was heard down here.

Could it be that QRP-L does this to all new comers? Reminds me of
my first Boy Scout camping trip and the traditional snipe hunt; but
it sounds so good and all of those tales around the list just might
be true. I'd better keep listening. I even sent out a few "CQ QRP
de OA4DB0\QRP" s at 0300 UTC hope for some response - full five
watts mind you! and my vertical was rotated your way :>{)

72
Kris
OA4DB0

From qrp-l@lehigh.edu Tue Oct 31 14:36:00 1995
From: JKXM17A@prodigy.com (KENNETH A SMITH)

Subject: [4952] Fox Hunting
Message-ID: <013.03864739.JKXM17A@prodigy.com>

This evening heard fox WB3GCK calling on 7.040 at 0151, sigs about 329. Heard AB50U trying to connect. Then a couple of stations passing traffic took over and everything QRP sunk into the black whole of power. That's how it goes, I guess.

Are these kind of comments unwelcome on qrp-l? Give it to me straight doc, I can take it.....

73, Allen Smith - AAOYU - Grand Junction, CO.

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Dale Hall <102603.30@compuserve.com>
Subject: [4950] FOX on Monday
Message-ID: <951031014705_102603.30_HHU28-1@CompuServe.COM>

Craig, WB3GCK (alias, the FOX), you were really booming into Missouri, tonight. Then some QRO station asked if the freq was in use, just like one ought to. And, just like one ought to, I let him know we were using the freq. Didn't seem to help; not unusual since we are QRP. He went ahead and called, anyway. BLEW YOU AWAY! I would have given you at least a 589. Too bad. Band was super-busy! Thanks for the short one.

de Dale KBOWZ

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: GREGOIRE@VALLEY.NET (ERNEST GREGOIRE)
Subject: [4964] FOX Unheard in N.E.
Message-ID: <199510311319.IAA13404@dartvax.dartmouth.edu>

Hello fello fox hunters.

Judging from the of the list of successful fox hunters it looks like there was not much propagation to New England. Antenna orientation maybe?

I had my beam pointed at PA. I'll try the verticle for near proximity fox next time.

[illegible]

Ernie Gregoire
RR 1 Box 221
Canaan, NH. 03741

New England QRP Club, information
available on request by sending me a
S.A.S.E. or via E-mail.

e-mail : GREGOIRE@VALLEY.NET
packet : AA1IK@WA1WOK.FN43FE.NH.USA

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: cebik@UTKVX.UTCC.UTK.EDU
Subject: [4963] GQRP - QRP+ EPROM PATCH (fwd)
Message-ID: <Pine.PMDF.3.91.951031065746.543352083A-100000@utkvx.utk.edu>

Peter sent this to the G-list, and I am forwarding it to qrp-1 for all
QRP+ owners.

-73-

LB, W4RNL

----- Forwarded message -----

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>
Subject: [4938] Handbook
Message-ID: <30E9A3DBF@iunhaw1.iun.indiana.edu>

Anybody else get the 1996 Handbook yet? I got mine last Friday and
today, for the first, had some time to look at the diskette that
comes with it. Lots of stuff there!! The Sierra is written up there
also. Now I will have to find some time to try to take some of it
in!!!

72 de Tim WB9NLZ

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: John Seboldt <rohrwerk@netcom.com>
Subject: [4934] Horizontal Loops
Message-ID: <Pine.3.89.9510300729.A20664-0100000@netcom18>

km@PACT.ORG.PE wrote about horizontal loops:

> 1) Try for resonance on the lowest band (1005/fMHz

And don't worry about perfect resonance if you feed with open line :-)

> 3) feed at a corner

I'd be hard pressed to find a "corner" in my random-shaped loop thrown through the trees. Don't worry about this, depending on your configuration.

> 4) use a 1/4 wave 75ohm coax transformer (some use 450ohm ladder
> line, then coax to an ATU etc.)

Sure, if you want to run on one band only. Ladder line all the way to a balanced tuner is the very best multiband setup.

> Main thing is to get
> the wire up and out.

Yep -- don't worry about details! My loop is 350 feet around -- longer than a full wave on 80, shorter than one on 160... the feed is in the middle of a 120-foot span... the shape is random, the wire is thrown over the tree without insulators at some places... and boy does it work STUPENDOUSLY, within the limits of a non-directional wire antenna.

: John Seboldt rohrwerk@netcom.com / CW: It don't mean a thing
: K0JD... Minneapolis, MN / if it ain't got that swing!
: My R2/T2 station described in / Di dah, di dah, di dah, di dah...
> <http://www.lehigh.edu/lists/qrp-1/k0jd/index.html> <

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: ruswhite@netwest.com (Russell W. White)
Subject: [4948] Logging Sweepstakes
Message-ID: <199510310053.RAA01537@saguaro.netwest.com>

Hello to all:

The ARRL CW Sweepstakes is this weekend. If you are looking for a logging program SS, then you might want to check out CQP94WIN.zip. This program is designed for three contests and Sweepstakes is one of them.

The ftp sight is oak.oakland.edu
The directory is /pub3/hamradio/arrl/bbs/contests cq94win.zip

I downloaded n6tr405.zip. It handles quite a few contests, and it has a instruction manual to print out but I think that it may take a little longer to get going (or get used to).

I'm new to logging programs, and cq94win is what I will be using this saturday, but, I will print out the manual for n6tr and practice with it for some other contests.

If nothing else, now you have something else to add to the confusion factor.

72 de ab7jx

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: "david (d.) burniston" <davidgb@bnr.ca>
Subject: [4935] My Cascade is on the air!
Message-ID: <"27179 Mon Oct 30 11:08:46 1995"@bnr.ca>

Hi,

Well, I've had a lot of fun building my Cascade kit and it is on-the-air
I am experiencing a bit of a problem with the transmitted audio having a bit of a "gurgle" to it. I'll go hunting for the cause.

I had a qso with my dad on Saturday to check it out... his Cascade isn't quite finished yet. This rig is really fun!

There is another Cascade being built here in Ottawa and I hope to have a Cascade -Cascade QSO shortly...

.. Dave
VE3LFO

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: "Bowes, Fr. Bruce" <GBB1@MARISTB.MARIST.EDU>
Subject: [4944] My other rig is..T520S ??
Message-ID: <30OCT95.15560285.0115.MUSIC@MARISTB.MARIST.EDU>

Can anyone give me some advice about a T520 as a second rig - My 1st is a SWL 40.

Tnx
Fr Bowes

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Jeff Gold <JMG@tntech.edu>
Subject: [4940] NN1G--filtering?
Message-ID: <01HX1TVBYCDKQT7B8G@tntech.edu>

howdi,

anybody still using their NN1G... now that I have been playing with mine, wondering about other people's experience. I have noticed that the receiver is very sensitive, but noisy, which I can live with. I have found that if the band has more than a few people.. they all sound like they are on the same freq... what have others done about the lack of filtering, other than use external filters.. may just hook up my Oak Hills Scaf

73

Jeff

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: "Stan Goldstein, N6ULU" <stan@cruzio.com>
Subject: [4943] norcal40/variable fltr
Message-ID: <9510300921.aa00727@inside.cruzio.com>

Hi Guys, This weekend I put in the variable filter mod for the norcal 40 (also works on the Sierra).

This design came from Wayne , N6KR

It's an easy mod, just replace the 3 caps between the crystals with mvam 108 varactor diodes, add 3 resistors, one at each of the filter side of the of the new diodes , tie the resistors into the wiper of a 5 or 10 k pot you add on the front or back panel.

the bottom of the pot goes to ground and the top goes to 8V, put a .01 cap from the wiper to ground .

If anyone wants the design specifics , I will get em to you.

The ssb contest on this weekend gave me a chance to try out its usefulness.

It works great. I was able to dial in stations with good copy that I wouldn't have been even close to working.

The problems I am having is that 1) the center of the passband seems to be a few hundred hz higher than the tx freq. I can work around this problem

by turning the rit control as I close down the filter, but I wonder if there is a way to fix this correctly ?

I tried modifying the rx tuning per the norcal 40A by changing c18 to 270 pf and replacing c 17 with a trimmer, also replaced c 34 with a trimmer to get tx freq to equal rx freq, but that didn't solve the center passband of the filter.

I suspect that the crystals are just off a bit and the mod didn't cause the problem, just called it to my attention.

Problem # 2 is that the rig is more prone to "hand capacitance", but this may be caused by the 8V linr running too close to the vfo. I'll play with this and see if I can improve it.

Anyway, I recommend doing the mod , it really cuts out a lot of qrm.

72.5 n6ulu ..

--

Stan Goldstein

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Russ1031@aol.com
Subject: [4959] Note to the Fox, WB3GCK
Message-ID: <951030230107_59063593@emout06.mail.aol.com>

Craig, you were putting in nice signal into Oregon tonight. The only thing that rattled our QSO a little was a QRO nasty on your exact frequency. But your "low profile" station was hauling.

The radio environment here is pretty strange. Typically enough for Paul Bunyan country, there were three 10,000 foot volcanos between you and me. On the other hand, all these trees make it possible to put up some interesting antennas. In your case, I was using a 40 meter bisquare, 120 feet high, strung between two Douglas firs that are somewhere between 180 and 200 feet tall.

Isn't QRP the greatest!

Russ, AA7QU

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: owen.nelson@prostar.com
Subject: [4961] pixie2 help
Message-ID: <199510310658.BAA88770@nss2.CC.Lehigh.EDU>

Help!

I just finished my pixie2 and it works great on transmit, as a matter of fact that is all it will do.

I plug in the battery and it transmits! No key necessary.

Can anyone give me any ideas on what I did wrong, how to check it out, and how to fix it?

Any help will be greatly appreciated.

Thanks,

Owen - KB7UXP

Please respond to:
owen.nelson@prostar.com

To be "mostly harmless" and "very mattress-like"
is very usefull.....sometimes. owen.nelson@prostar.com

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: kub@upl.com (Steve Kubisch)
Subject: [4933] Thursday nite Fox info
Message-ID: <9510301527.AA02243@ringworld.pacificorp.com>

Hi foxhunters,

Posting this early for the digesters.

Here's the times for my turn as the Fox this week:

Thursday nite:	7:00 - 7:30	MST	7.110 + 5 khz	QRM
	7:30 - 9:00	MST	7.040 + 5 khz	QRM

For the UTC bunch : Friday Nov. 3 1995 0200 - 0400

Hope the local noise stays low. I've had good condx the last few weeks, so I should be able to give a few of you Utah 2 way QRP.

72,
Steve -WW7Y-

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: PDouglas12@aol.com
Subject: [4947] TS520
Message-ID: <951030172444_93489123@emout04.mail.aol.com>

Gang,

I know a good deal about the 520 and sent a detailed reply to Fr Bowes about it. Anyone else considering picking up a 520 as a novice rig ought to email me or get help from another old timer--it has tube finals and therefore has high voltages--and it needs neutralization of any new final tubes which is quite dangerous if you aren't used to tube rigs. I didn't post my long response to Fr Bowes to save B/W on the QRP-L, so ask me for it directly if you are in the market for a 520--an otherwise excellent novice rig, and potentially usable QRP rig too.

Preston WJ2V

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Craig LaBarge <74740.3166@compuserve.com>
Subject: [4958] WB3GCK FOX ADDENDUM
Message-ID: <951031035520_74740.3166_EHB52-3@CompuServe.COM>

Chuck and the list:

That **was** AB50U I heard. Please add Tim to my list at 0222. RSTs were 339 both ways.

In fairness, KC5EQC should be added too (at 0250, his RST 449, mine ???). I noticed that he is on the list and that I copied his call correctly. Given the band conditions, an exchange of callsigns should suffice, I think. What do ya think, Chuck?

73, Craig WB3GCK

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995

From: Craig LaBarge <74740.3166@compuserve.com>
Subject: [4956] WB3GCK FOX REPORT
Message-ID: <951031033447_74740.3166_EHB184-1@CompuServe.COM>

Some annoying local QRM here tonite (I was hoping my OHR SCAF would have been here) and the band was pretty crowded at times, but I managed to hook up with a few folks. Here's the list.

FREQ	TIME	STATION	SENT	RECD	COMMENTS
7.110	0104	KK5KX	559	559	TX
	0109	W00Q	549	539	CO
	0112	K2NF	569	449	FL
7.040	0115	WI0W	569	569	IA
	0121	KA5T	459	339	
	0126	KB0WZ	459	549	
	0138	K5UP	559	559	OK, Glen
	0151	WW7Y	549	339	UT, Steve (a new one!!)
	0155	KK6MC/5	449	449	NM, Jim
	0232	W3PM	579	579	AL, Gene
	0241	KK5KX	559	559	TX (Dupe!)
	0246	KI5EZ	559	569	TX
	0253	AA7QU	549	549	OR
	0259	N6ULU	459	339	CA, Stan

Also, I *think* I heard AB50U and KC5EQC, but couldn't complete a QS0. Sorry, but the QRM was rough here at times.

The rig here was an MFJ running about 4.5 watts into a temporary 1/4 wave wire sloped out of second story window. I was using the little homebrew tuner I described in a posting the other day and a 1/4 wave counterpoise wire run around the baseboard of the room. So, I was please to work the west coast using a low profile setup like this.

My thanks to all of the hunters and my apologies to the ones I couldn't pull out. As always, it was a blast.

73, Craig WB3GCK

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [4946] Re: Antenna Measurement
Message-ID: <Pine.SUN.3.90.951030133001.551A-100000@vortex>

Chuck,

Remember the 300 ohm twin lead, about 3' long with a #47 lamp on one side? Move along the transmission line, (NO, not coax), till it lit up, then tune the rig!

Ahhhhh, the good ole' daz.....

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
...ku7y@sage.dri.edu.....Sun Valley, Nevada....
.....ARRL.....NorCal #330.....NRA LIFE.....

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>
Subject: [4951] Re: CW SWEEPSTAKES
Message-ID: <Pine.SUN.3.91.951030195237.9205H-100000@ume>

I will be on for this one as well....likely 40 and 20

Dr. Rick Zabrodski BSc, MD, CCFP(E)	*		VE6GK
Clinical Assistant Professor	*	NorCal 519	ARCI 7650 GQRP 8329
Faculty of Medicine, Univ. of Calgary	*	"Power is no substitute for skill"	

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>
Subject: [4955] Re: FOX on Monday
Message-ID: <Pine.SUN.3.91.951030203200.9205I-100000@ume>

On Mon, 30 Oct 1995, Dale Hall wrote:

> Craig, WB3GCK (alias, the FOX), you were really booming into Missouri, tonight.
>
Well, inbetween referendum news blurbs I listened but nothing heard here tonite.>

Dr. Rick Zabrodski BSc, MD, CCFP(E)	*		VE6GK
Clinical Assistant Professor	*	NorCal 519	ARCI 7650 GQRP 8329
Faculty of Medicine, Univ. of Calgary	*	"Power is no substitute for skill"	

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: ZenkerPN <ZenkerPN_at_DEBER@ccip.perkin-elmer.com>
Subject: GQRP - QRP+ EPROM PATCH

Hi gang,
i have been asked by a number of OMs how to patch the Eprom of the
QRP+. The computer specialist of the Activity Group QRP berlin DH7ADR
hereby gives the answer.

How to patch the QRP-Plus EPROM

Copyright 1995 (C) Dr. Andreas Tomiak, DH7ADR

AX.25: DH7ADR@DB0GR.#BLN.#DEU.EU
Email: tomiak@hmi.de

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Version 1.0, 18. August 1995
All patches are in hexadecimal notation of numbers

Patch #1

Removal of the lock for transmissions out of the amateur radio bands

Address	Value (orig)	Value (new)
\$4A5	\$83	\$00

Patch #2

New keyer speeds (twice as before, improved scaling).
16 speeds, 6 to 26 WPM

part 1: time constants

old	
\$550	78 78 50 50 3C 3C 30 30 28 28 22 22 1E 1E 1B 1B
new	
\$550	C8 AB 96 85 78 6D 64 5C 56 50 4B 43 3C 37 32 2E

part 2: values for display

old

\$BB6 10 10 15 15 20 20 25 25 30 30 35 35 40 40 45 45

new

\$BB6 06 07 08 09 10 11 12 13 14 15 16 18 20 22 24 26

If you want to choose your own time constants:

time constant = 6000/WPM = 1200/BPM

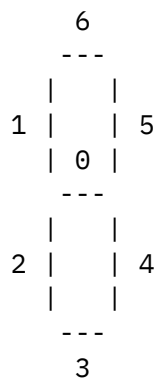
The displayed values will be the BCD values of the time constants.

Patch #3

Your call sign as power-on display

The content of the display after power-on is stored backwards into 6 bytes from \$30 in a special display code. All 6*7 segments are freely programmable. You have to experiment here a little bit, because of the limited number of possible alphanumeric characters on 7 segment displays.

Display-Code:



Every segment is assigned to one bit:

segment number
e.g. 76543210
00111101 \$3D d
00111011 \$3B H
01110000 \$70 7
01110111 \$77 A
00111101 \$3D d
00000101 \$3B r

The resulting call dH7Adr will be stored now as follows:

\$30 05 3D 77 70 3B 3D

A Table with numbers from 0-9, C and a two-part W is stored at address \$184 to \$191. This table will be used for general display.

Peter, DL2FI

Via GQRP-L - The G-QRP Club mailing list

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: JEVERHART@cayman.vf.mmc.com
Subject: [4965] Re: Monday Night Fox
Message-ID: <951031082122.22612099@carib.vf.mmc.com>

Curses, foiled again. Actually HEARD that wiley coyote, err... fox last nite. He is only about 30 miles from me - a great shot during daylight hours, but the ionosphere bounces over him at night. Hmmm, very much like the crafty devil hiding in his hole as the hounds jump over!

Shortly before 0200Z I heard some 5 and 6-land folks working him at jsut about 7040. Cranked the volume 'way up and there he was at S-1 to S-2! About that time my 16 year old turned on the outside light to scare off some suspected mischiefers (wasn't it last year that he was one of them?), and the resulting electrical pop nearly popped pop's eardrums!

After a nature call, the frequency was in use by some traffic QRO handlers. Listened 'til about 0245 and heard a 5 mobile, a CQ QRP, several QRO QSO's ("Gee your 150 watts sure doing fine here in FL. Your all the way up in Georgia?") The band was kinda spotty, anything past 700-800 miles did pretty well, most closer had that funnny kind of fluttery weak hollow down-the-tunnel quality.

Come on Thursday!

72/73,

Joe E., N2CX

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: Phil Wheeler <pcw@netcom.com>
Subject: [4954] Re: My other rig is..T520S ??
Message-ID: <Pine.3.89.9510301851.A24500-01000000@netcom20>

TS-520S (Kenwood) is a solid-state rig of 1975-1983 (circa) vintage; BUT the TX driver is a tube and the finals are 6146's. Unlike more modern rigs (e.g., TS-440S on) you do have to tune the finals. It also does not

have full-coverage reception like more current (10-12 yrs old, or newer) rigs. I don't know what its qrp capabilities are; when I had mine I also had an HW-8 (which I enjoyed immensely in Germany during 1977).

I used my TS-520S for about 10 years (1977-87) with good success and a variety of antennas. Recently I gave it to my daughter who is also a ham.

Phil (pcw@netcom.com)
aka W6TUH

On Mon, 30 Oct 1995, Bowes, Fr. Bruce wrote:

> Can anyone give me some advice about a T520 as a second rig - My 1st is
> a SWL 40.
> Tnx
> Fr Bowes
>
>

From qrp-l@lehigh.edu Tue Oct 31 14:36:00 1995
From: burdick@interval.com (Wayne Burdick)
Subject: [4941] Re: norcal40/variable fltr
Message-ID: <v02130504acbabc13fbb3@[199.170.106.28]>

Hi Stan,

>put a .01 cap from the wiper to ground.

Yes, the .01uF cap goes from the wiper to ground, BUT: the cap must be as close as possible to the varactor diodes themselves (not close to the pot), and the isolation resistors must have short leads. This will prevent pickup of stray RF that could cause intermodulation distortion at the varactor diodes. If you put all of the circuitry right at the crystal filter--including the bypass cap--you can then use leads of any length up to the tuning pot.

>The problem: the center of the [RX] passband seems to be
>a few hundred hz higher than the tx freq.

Sounds like the trimmer on the TX crystal isn't allowing you to move it far enough. Try changing the 15uH coil at the TX 4.915MHz crystal to 18uH, and ALSO change the 150pF cap in the TX oscillator to 270pF. This should give you plenty of range, and you can then set the BFO and TX offset to any point you'd like.

>Problem # 2 is that the rig is more prone to "hand capacitance", but this
>may be caused by the 8V linr running too close to the vfo. I'll play with
>this and see if I can improve it.

If you put the .01uF bypass nearer to the varactor diodes as I mentioned,
and run the DC control lines away from the VFO and the PA, you should have
zero problems with hand capacitance or other effects.

Hope this helps--

73,
Wayne

From qrp-1@lehigh.edu Tue Oct 31 14:36:00 1995
From: JEVERHART@cayman.vf.mmc.com
Subject: [4939] Re: November meeting
Message-ID: <951030130354.2260f235@carib.vf.mmc.com>

Vince, and all.

Whew it has been a while since we last got together. My availabilty is not
as good as it could be, but here goes:

Preferred nights are: 11/14, 11/16 and 11/21.

If worst comes to worst, I think 11/20 could be made available.

Anybody - bring your Cascades no matter how little is assembled. If it's of
interest, I will bring along my SW80 and NN1G Mk II 20 meter kits, both
currently unassembled. Soemone may be able to guage from the manuals, etc.
whether or not they want to consider getting this type of kit.

P.S. Advance notice! I'm putting up for sale two of my QRP rigs. Need money
to get some of the new kits!

MFJ 9040 CW QRP xcvr - ~ 3 watts out, tunes 7.000 to 7.150 MHz, superhet
receiver. Good selectivity and RIT. Operates off 12vdc. Great portable or
mobile rig. Used while camping and on recent 40 m fox hunt. - \$115

Ten Tec Century 21 CW XCVR. Tunes 80 thru 10 meters, no WARC bands. ~20 to 30
watts out, can be set to QRP levels. Fantastic QSK. Receiver is direct
conversion with three selectable audio bandwidths. Also includes Ten Tec
crystal calibrator. Base station rig with ac power supply built in or will
run from 12vdc. "Big rig" at home. Has worked coast to coast QRP on 40

meters and up and even Japan with 5w QRP. - \$220.

Ten Tec SWR meter. Small, matches Argonaut color scheme. Meter is not graduated, but relative reading. Connectors are type "F" like on tv cable.
- \$20

I'm making these available locally first to let you guys have a crack at them and to save the bother of shipping. If they are not sold in a couple of weeks, I'll put them up for sale on qrp-l at higher prices to cover shipping.

72/73,

Joe E., N2CX

From qrp-l@lehigh.edu Tue Oct 31 14:36:00 1995
From: JEVERHART@cayman.vf.mmc.com
Subject: [4945] Re: November Meeting
Message-ID: <951030143023.2260f235@carib.vf.mmc.com>

Gang,

Please disregard my earlier post with the same name - yeah, I know Judge Ito said the same thing and we all know how that turned out....

The post was inadvertently addressed to my address file for qrp-l instead of qrp-nj. My fingers don't want to work on Monday. I wanna give that gang first crack at the stuff that's for sale.

72/73,

Joe E., N2CX